

1 ABSTRACT

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3 Light source monitoring apparatus includes a light  
4 source having drive electronics for supplying drive current  
5 to the light source. A monitor diode is connected to the  
6 drive electronics for controlling the amount of drive  
7 current supplied to the light source. A lens system is  
8 positioned to receive the beam of light from the light  
9 source and transmit substantially all of the beam of light  
10 along an optical axis to a light terminal. The lens  
11 system includes a first lens element positioned along the  
12 optical axis and adjacent the light source and a second  
13 lens element positioned along the optical axis and adjacent  
14 the light terminal. A light reflecting surface in the lens  
15 system is positioned along the optical axis to reflect a  
16 portion of the beam of light at an angle to the optical  
17 axis onto the monitor diode.